This listing of claims will replace all prior versions, and listings, of claims in the application.

## In the Claims:

1-23. Canceled.

24. (CURRENTLY AMENDED) A method for the selective removal of material from the surface of a silicon-containing substrate <u>supported in a container</u> for forming a deepening, comprising the steps of:

applying a mask onto the substrate surface in accordance with a desired selective removal, aluminium being used for forming the mask,

dry-etching the substrate, and

inductively coupling power <u>from a source located within the container</u> into the etching medium during dry etching,

wherein a cavity of a depth of at least 150  $\mu m$  is generated at an etch rate of at least 2  $\mu m/min$ ,

in turn with etching steps passivation steps are included, and
the substrate is kept at a distance from the inductive coupling of at least
two times, preferably at least three times, the mean free path length of the plasma
atoms, or at a distance of at least 8 cm from the inductive coupling.

- 25. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that the substrate is kept at a distance of at least 10 cm from the inductive coupling.
- 26. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that during etching the pressure is below 15 Pa, preferably below 10 Pa, and/or above 1 Pa, preferably above 2 Pa.
- 27. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that material is removed up to the other side of the substrate.
- 28. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that a mask having a thickness of below 1.5 µm, preferably below 0.6 µm, is formed.
- 29. (PREVIOUSLY PRESENTED) The method according claim 24, characterized in that the substrate is masked up to the edge.
- 30. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that when the mask is applied aluminum is vapor-deposited or sputtered.

- 31. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that when the mask is applied a metallic layer is etched in accordance with the desired selective removal.
- 32. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that the metal used contains at least 90% by weight Al.
- 33. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that the etch position (T) is determined repeatedly in the depthwise direction, etching being concluded or a second etching process, which is qualitatively different or proceeds with operating parameters differing from those of the preceding etching process, being employed when a certain position has been reached.
- 34. (PREVIOUSLY PRESENTED) The method according to claim 33, characterized in that the depth is determined by means of laser light whose properties are analyzed after being reflected by the bottom, in particular with respect to the first derivative of a detected signal.

- 35. (PREVIOUSLY PRESENTED) The method according to claim 33, characterized in that in the second etching process etching is carried out in a dry condition with inductively power-coupled plasma, the gas pressure being higher and/or the applied bias being lower.
- 36. (PREVIOUSLY PRESENTED) The method according to claim 34, characterized in that in the second etching process etching is carried out in a dry condition with inductively power-coupled plasma, the gas pressure being higher and/or the applied bias being lower.
- 37. (PREVIOUSLY PRESENTED) The method according to claim 33, characterized in that after the second etching process a third etching process is applied which is qualitatively different from the preceding etching process or proceeds with operating parameters differing from those of the preceding etching process.
- 38. (PREVIOUSLY PRESENTED) The method according to claim 34, characterized in that after the second etching process a third etching process is applied which is qualitatively different from the preceding etching process or proceeds with operating parameters differing from those of the preceding etching process.

- 39. (PREVIOUSLY PRESENTED) The method according to claim 35, characterized in that after the second etching process a third etching process is applied which is qualitatively different from the preceding etching process or proceeds with operating parameters differing from those of the preceding etching process.
- 40. (PREVIOUSLY PRESENTED) The method according to claim 37, characterized in that in the third etching process etching is carried out in a dry and isotropic condition and preferably with inductively power-coupled plasma, wherein the applied bias may be 0.
- 41. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized in that before the mask is removed an incineration step for polymer residues on the mask is preferably provided by wet etching.
- 42. (PREVIOUSLY PRESENTED) The method according to claim 41, characterized in that the incineration is effected by means of oxygen plasma.
- 43. (PREVIOUSLY PRESENTED) The method according to claim 41, characterized in that the incineration is followed by a treatment with tetramethylammonium hydroxide.

44. (PREVIOUSLY PRESENTED) The method according to claim 42, characterized in that the incineration is followed by a treatment with tetramethylammonium hydroxide.

45. (PREVIOUSLY PRESENTED) The method according to claim 24, characterized by one or more of the following features:

the material is removed from more than 8%, preferably more than 20%, of the substrate surface,

the substrate is a disk-like wafer having a diameter of at least 10 cm, preferably at least 15 cm.

46. CANCELED.

47. (CURRENTLY AMENDED) A method for masking wafers to be etched with a mask material, comprising:

applying a mask material to a wafer to be etched in accordance with a desired selective removal of material from a surface of the wafer, wherein the material comprises:

an aluminum amount of more than 90% by weight, preferably more than 95% by weight, and

a copper amount between 0.5 and 2% by weight, preferably below 1% by weight, and/or a silicon amount between 0.5 and 2% by weight and/or a titanium amount between 0.2% by weight and 3% by weight, preferably below 1.5% by weight, are admixed to form the mask material.

48. (PREVIOUSLY PRESENTED) A wafer made according to the method of claim 47.

49. (CURRENTLY AMENDED) A method for the selective removal of material from the surface of a silicon-containing substrate <u>supported in a container</u> for forming a deepening, comprising the steps of:

applying a mask onto the substrate surface in accordance with a desired selective removal, aluminium being used for forming the mask,

dry-etching the substrate, and

inductively coupling power from a source located within the container into the etching medium during dry etching,

wherein a cavity which fully penetrates through the substrate is generated at an etch rate of 2 µm/min,

in turn with etching steps passivation steps are included, and
the substrate is kept at a distance from the inductive coupling of at least
two times, preferably at least three times, the mean free path length of the plasma
atoms, or at a distance of at least 8 cm from the inductive coupling, an electric field is
applied between the substrate and the inductive coupling.

50. (CURRENTLY AMENDED) A method for the selective removal of material from the surface of a silicon-containing substrate <u>supported in a container</u> for forming a deepening, comprising the steps of:

applying a mask onto the substrate surface in accordance with a desired selective removal, aluminium or an aluminum alloy having at least 90% by weight Al or of a composite material having at least 90% by weight Al being used for forming the mask,

dry-etching the substrate, and

inductively coupling power <u>from a source located within the container</u> into the etching medium during dry etching using an inductively power-coupled plasma,

wherein a cavity of a depth of at least 300  $\mu m$  is generated at an etch rate of at least 2  $\mu m/min$ ,

in turn with etching steps passivation steps are included, and
the substrate is kept at a distance from the inductive coupling of at least
two times, preferably at least three times, the mean free path length of the plasma
atoms, or at a distance of at least 8 cm from the inductive coupling.